



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lehn, J.M., et al.

Application No: 10/649,583

Filing Date: August 26, 2003

Entitled: *Ammonium Salts of Inositol
Hexaphosphate, and Uses Thereof*

Examiner: Not Yet Assigned

Group Art : 1614

Docket No.: GMX-007.02

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, V.A., 22313-1450, on February 25, 2004.


Steve Pereira

Commissioner for Patents
P.O. Box 1450
Alexandria, V.A. 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97 (b)(1), Applicants submit herewith a Form PTO-1449 including the listed publications.

Under 35 U.S.C. §120, this application has the benefit of the earlier filing date of the parent applications Serial No. 09/920,140, filed August 1, 2001, which claims priority to 60/222,089 filed August 1, 2000.

Copies of references A1-A20, B1-B7 and C1-C14 were submitted in an Information Disclosure Statement filed on January 9, 2002, in parent application Serial No. 09/920,140. References B-8-B11 and C15 were submitted in a Supplemental Information Disclosure Statement in the same parent application mailed November 16, 2002. Therefore, copies of references are not provided herewith, pursuant to 37 C.F.R. § 1.98(d).

Applicants respectfully request that the Examiner consider the listed documents and indicate that each was considered by making appropriate notations on the attached Form 1449.

This submission does not represent that a search has been made or that no better art exists. Nor does it constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies a listed document as prior art against any claim in the patent application or a related application and Applicants determine that the cited document does not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such document.

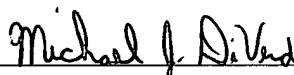
Applicants further reserve the right to take appropriate action to establish the patentability of claims over the listed documents should the any of the documents be applied against the claims of the present application or of a related application.

Under 37 C.F.R. § 1.97 (b)(3), this Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits; therefore, no fee is believed to be due in connection with this submission. However, the Commissioner is authorized to charge any deficiencies or credit any overpayment to/from our **No. 06-1448**.

Respectfully submitted,
FOLEY HOAG LLP

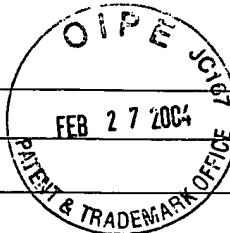
Dated: February 25, 2004

Customer No. 25,181
Patent Group
FOLEY HOAG LLP
155 Seaport Blvd
Boston, MA 02210-2600
Tel.: (617) 832-1230
Fax: (617) 832-7000



Michael J. DiVerdi, Ph.D.
Reg. No. 51,620
Agent for Applicants

Form PTO-1449

INFORMATION DISCLOSURE CITATION**IN AN APPLICATION***(Use several sheets if necessary)*Docket Number (Optional)
GMX-007.02Applicant
Lehn, J.M. et al.Filing Date
August 26, 2003Application Number
10/649,583Group Art Unit
1614**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----------------|--------------|----------|------------------|----------|-------------------------------|
| | A1 | US 3,847,738 | 11/12/74 | Brake et al. | 195 | 1.8 |
| | A2 | US 4,546,095 | 10/08/85 | Markov | 514 | 23 |
| | A3 | US 4,699,926 | 10/13/87 | Abraham et al. | 514 | 563 |
| | A4 | US 4,731,381 | 03/15/88 | Abraham et al. | 514 | 571 |
| | A5 | US 4,731,473 | 03/15/88 | Abraham et al. | 562 | 464 |
| | A6 | US 4,751,244 | 06/14/88 | Abraham et al. | 514 | 563 |
| | A7 | US 4,757,052 | 07/12/88 | Markov | 514 | 23 |
| | A8 | US 4,849,416 | 07/18/89 | Pendleton et al. | 514 | 150 |
| | A9 | US 4,861,795 | 08/29/89 | Suh et al. | 514 | 510 |
| | A10 | US 4,866,052 | 09/12/89 | Hider et al. | 514 | 184 |
| | A11 | US 4,887,995 | 12/19/89 | Abraham et al. | 604 | 4 |
| | A12 | US 4,948,582 | 08/14/90 | Suh et al. | 424 | 529 |
| | A13 | US 5,015,663 | 05/14/91 | Suh et al. | 514 | 510 |
| | A14 | US 5,039,665 | 08/13/91 | Markov | 514 | 23 |
| | A15 | US 5,296,466 | 03/22/94 | Kilbourn et al. | 514 | 6 |
| | A16 | US 5,344,393 | 09/06/94 | Roth et al. | 604 | 4 |
| | A17 | US 5,428,007 | 06/27/95 | Fisher et al. | 514 | 6 |
| | A18 | US 5,451,205 | 09/19/95 | Roth et al. | 604 | 6 |
| | A19 | US 5,612,207 | 03/18/97 | Nicolau et al. | 435 | 173.6 |
| | A20 | US 5,906,915 | 05/25/99 | Payrat et al. | 435 | 2 |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|--|-----------------|-----------------|----------|-----------------------------|----------|---|----|
| | | | | | | YES | NO |
| | B1 | JP 51-108020 | 09/25/76 | Japan | | English Translation of Japanese Patent Abstract | |
| | B2 | JP 55-147295 | 11/17/80 | Japan | | English translation of Japanese Patent Abstract | |
| | B3 | EP 0 146 338 A2 | 06/26/85 | European Patent Application | | | X |
| | B4 | WO 92/20369 | 11/26/92 | PCT | | | X |

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|---|-----|---|----------|--|-----------------|----------------------------------|------------------------|---|
| Form PTO-1449 | | | | Docket Number (Optional) GMX-007.02 | | Application Number 10/649,583 | | |
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | | | | Applicant Lehn, J.M. et al. | | | | |
| | | | | Filing Date August 26, 2003 | | | Group Art Unit 1614 | |
| | B5 | WO 92/20368 | 11/26/92 | PCT | | | | X |
| | B6 | WO 93/16688 | 09/02/93 | PCT | | | | X |
| | B7 | WO 94/21117 | 09/29/94 | PCT | | | | X |
| | B8 | WO 95/03068 | 02/02/95 | PCT | | | | X |
| | B9 | WO 97/42819 | 11/20/97 | PCT | | | | X |
| | B10 | WO 01/13933 A2 | 03/01/01 | PCT | | | | X |
| | B11 | WO 01/24830 A2 | 04/12/01 | PCT | | | | X |
| OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages Etc.)</i> | | | | | | | | |
| | C1 | Hirst et al.; "The Modification of Hemoglobin Affinity For Oxygen and Tumor Radiosensitivity by Antilipidemic Drugs", Radiation Research 112: 164-172, (1987) | | | | | | |
| | C2 | Ogata and McConnell.; "Triphosphate Spin-Label Studies of Allosteric Interactions In Hemoglobin", Annals of the New York Academy of Sciences, 222: 56-67, (December 31, 1973) | | | | | | |
| | C3 | Ruckpaul et al.; "Interaction of Hemoglobin with Ions Allosteric Effects of the Binding of Anions", Biochimica et Biophysica Acta 236:211-221, (1971) | | | | | | |
| | C4 | Benesch and Benesch; "The Effect of Organic Phosphates From the Human Erythrocyte on the Allosteric Prosperities of Hemoglobin", Biochemical and Biophysical Research Communications, 26 (2): 163-167, (1967) | | | | | | |
| | C5 | Lalezari et al.; "New Effectors Of Human Hemoglobin: Structure and Function", Biochemistry 29: 1515-1523, (1990) | | | | | | |
| | C6 | Abraham et al.; "Design, Synthesis, and Testing of Potential Antisickling Agents. I. Halogenated Benzyloxy and Phenoxy acids", J. Med. Chem. 25: 1015-1017, (1982) | | | | | | |
| | C7 | Teisseire et al.; "Physiological Effects of High -P ₅₀ Erythrocyte Transfusion on Piglets", Journal of Applied Physiology, 58(4): 1810-1817, (April 1985) | | | | | | |
| | C8 | Brooksbank and Balazs; "Superoxide Dismutase and Lipoperoxidation in Down's Syndrome Fetal Brain ", The Lancet 1: 881-882, (April 16, 1983) | | | | | | |
| | C9 | Benesch and Benesch; "Intracellular Organic Phosphates as Regulators of Oxygen Release by Haemoglobin", Nature, 221: 618-622, (February 15, 1969) | | | | | | |
| | C10 | Arnone Arthur; "X-ray Diffraction Study of Binding of 2,3-Diphosphoglycerate to Human Deoxyhaemoglobin", Nature 237: 146-149, (May 19, 1972) | | | | | | |
| | C11 | Abraham et al.; "Physiological and X-ray Studies of Potential Antisickling Agents", Proc. Natl. Acad. Sci. USA, 80:324-328, (January 1983) | | | | | | |
| EXAMINER | | | | | DATE CONSIDERED | | | |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | | | | | | | | |

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| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | Docket Number (Optional) GMX-007.02 | Application Number 10/649,583 |
| | Applicant Lehn, J.M. et al. | |
| | Filing Date August 26, 2003 | Group Art Unit 1614 |

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| C12 | Teisseire et al.; "Long-term Physiological Effects of Enhanced O ₂ Release by Inositol Hexaphosphate-Loaded Erythrocytes", Proc. Natl. Acad. Sci. USA, 84: 6894-6898, (October 1987) | |
| C13 | Lalezari et al.; "LR16, a Compound with Potent Effects on the Oxygen affinity of Hemoglobin, on Blood Cholesterol, and on Low Density Lipoprotein", Proc. Natl. Acad. Sci. USA, 85: 6117-6121, (August 1988). | |
| C14 | Bruggemann et al.; " Low Oxygen-Affinity Red Cell Produced In a Large-Volume, Continous-Flow Electroporation System", Tranfusion 35(6): 478-485, (June 1995) | |
| C15 | International Search Report Completed on december 13, 2001 and mailed on December 27, 2001 | |
| C16 | | |
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